

# WEST Search History

DATE: Saturday, November 02, 2002

**Set Name Query**  
side by side

**Hit Count Set Name**  
result set

*DB=USPT,JPAB,EPAB,DWPI; PLUR=YES; OP=OR*

L13	9303160.pn. and antibod\$	0	L13
L12	9410315.pn. and antibod\$	0	L12
L11	9638574.pn. and antibod\$	0	L11
L10	5670635.pn. and antibod\$	1	L10
L9	5850016.pn. and antibod\$	1	L9
L8	L7 and antibod\$	1	L8
L7	5484956.pn. or 5538877.pn. or 5538880.pn. or 5508468.pn. or 5554798.pn. or 9110725.pn.	7	L7
L6	L5 and l4	7	L6
L5	(conformation\$ or structur\$) with antibod\$	10080	L5
L4	L3 with (nutrition\$ or essential\$)	123	L4
L3	(storage adj2 (protein\$ or peptide\$))	1863	L3
L2	L1 and (storage adj2 (protein\$ or peptide\$))	15	L2
L1	conformation\$ with antibod\$	2054	L1

END OF SEARCH HISTORY

**09/478598**  
**STN Search Summary**

=> d his

FILE 'CAPLUS' ENTERED AT 15:30:01 ON 02 NOV 2002

L1 220 S ANTIBOD? (S) CONFORMATION? (S) PROB?  
L2 173 S L1 AND PD<1998  
L3 9 S L2 AND REVIEW/DT  
L4 1 S L2 AND (MODIF? OR MUTAT? OR ALTER) AND ESSENTIAL  
L5 50 S L2 AND (MODIF? OR MUTAT? OR ALTER?)  
L6 1 S L5 AND (ESSENTIAL OR NUTRITION?)  
L7 8825 S (ESSENTIAL AMINO ACID?)  
L8 328 S L7 (S) (MODIF? OR ALTER? OR MUT?)  
L9 0 S L8 (P) (NATIVE CONFORMATION?)  
L10 7 S L8 (P) (CONFORMATION?)

L3 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS  
AN 1993:231680 CAPLUS  
TI Constrained peptides and mimetics as probes of protein secondary structure  
AU Saragovi, H. Uri; Greene, Mark I.  
SO ImmunoMethods (1992), 1(1), 5-9

L3 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS  
AN 1991:674796 CAPLUS  
TI Investigating protein conformation, dynamics and folding with monoclonal antibodies  
AU Goldberg, Michel E.  
SO Trends in Biochemical Sciences (1991), 16(10), 358-62

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS  
AN 1986:493261 CAPLUS  
TI Monoclonal antibodies to F1-ATPase subunits as probes of structure, conformation, and functions of isolated or membrane-bound F1  
AU Godinot, Catherine; Moradi-Ameli, Mahnaz; Gautheron, Daniele C.  
SO Methods Enzymol. (1986), 126(Biomembranes, Pt. N), 761-9

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS  
AN 1977:1450 CAPLUS  
TI Antibodies as probes for the detection of conformational changes in proteins  
AU Lazdunski, Claude J.  
SO Trends Biochem. Sci. (1976), 1(10), 231-3

09/478598  
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 15:50:52 ON 02 NOV 2002

L1 4313 S STORAGE (W) (PROTEIN OR PEPTIDE)  
L2 2000 S L1 (S) (VEGETA? OR SEED? OR PLANT?)  
L3 22121 S (NUTRITION? OR ESSENTIAL?) (S) (AMINO ACID?)  
L4 53 S L2 (P) L3  
L5 35 S L4 AND PD<1998  
L6 1 S L5 AND CONFORM?  
L7 11 S L5 AND (STRUCTUR? OR CONFORM?)  
L8 10 S L7 NOT L6  
L9 25 S L5 NOT L8

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 1996:19376 CAPLUS

TI Extensive modifications for methionine enhancement in the .beta.-barrels do not alter the structural stability of the bean seed storage protein phaseolin

AU Dyer, John M.; Nelson, Jeffrey W.; Murai, Norimoto

SO Journal of Protein Chemistry (1995), 14(8), 665-78

L8 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1995:839630 CAPLUS

TI De novo designed synthetic plant storage proteins: Enhancing protein quality of plants for improved human and animal nutrition

AU Jaynes, Jesse Michael

SO Biotechnology in the Feed Industry, Proceedings of Alltech's Annual Symposium -- 10th, Lexington, Ky., May, 1994 (1994), 129-53.  
Editor(s): Lyons, T. P.; Jacques, Kathryn Ann. Publisher: Nottingham University Press, Loughborough, UK.

L8 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1993:56122 CAPLUS

TI Enhancing the nutritional quality of crop plants: design, construction, and expression of an artificial plant storage protein gene

AU Kim, Jae Ho; Cetiner, Selim; Jaynes, Jesse M.

SO Mol. Approaches Improv. Food Qual. Saf. (1992), 1-36.  
Editor(s): Bhatnagar, Deepak; Cleveland, Thomas E. Publisher: Van Nostrand Reinhold, New York, N. Y.

L8 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1992:466503 CAPLUS

TI Manipulation of potato protein: biotechnological approaches and lessons from evolution

AU Park, William D.

SO Biotechnol. Nutr., Proc. Int. Symp., 3rd (1992), Meeting Date 1990, 253-71. Editor(s): Bills, Donald Duane; Kung, Shain-dow. Publisher: Butterworth-Heinemann, Boston, Mass.

L8 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1991:489114 CAPLUS

TI Structural analysis and modification of maize storage proteins

AU Larkins, Brian A.; Wallace, John C.; Galili, Gad; Lending, Craig R.; Kawata, Evelyn E.

SO Developments in Industrial Microbiology Series (1989), 30, 203-9

6

L8 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1988:587228 CAPLUS

TI Modification of proteins encoded by seed storage protein genes

AU Larkins, Brian A.

SO Basic Life Sciences (1987), 41(Tailoring Genes Crop Improv.),  
163-7

L8 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1986:532466 CAPLUS

TI Subunit structure of Vicia faba legumin and implications for the  
improvement of protein quality

AU Horstmann, C.; Muentz, K.

SO Nahrung (1986), 30(3-4), 229-34

L9 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2002 ACS

AN 1998:406074 CAPLUS

TI Genetic engineering methods for altering the nutritional content of plant  
seed by modifying or regulating storage protein expression

IN Kirihara, Julie A.; Hibberd, Kenneth A.; Anthony, Janice

PA Dekalb Genetics Corp., USA

SO PCT Int. Appl., 134 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9826064	A2	19980618	WO 1997-US22744	19971209
	WO 9826064	A3	19980903		
	US 5484956	A	19960116	US 1990-508045	19900411 <--
	WO 9110725	A1	19910725	WO 1991-US183	19910114 <--
	JP 05505933	T2	19930902	JP 1991-503373	19910114 <--
	JP 3209744	B2	20010917		
	RU 2114911	C1	19980710	RU 1991-5052752	19910114
	JP 11318250	A2	19991124	JP 1998-342697	19910114
	CN 1054170	A	19910904	CN 1991-101238	19910122 <--
	US 5538877	A	19960723	US 1992-974379	19921110 <--
	US 5538880	A	19960723	US 1994-249458	19940526 <--
	US 5508468	A	19960416	US 1994-285488	19940803 <--
	US 5554798	A	19960910	US 1995-441073	19950515 <--
	US 6025545	A	20000215	US 1995-440689	19950515
	US 5780708	A	19980714	US 1996-618749	19960320
	US 6331665	B1	20011218	US 1996-619077	19960320
	US 5990390	A	19991123	US 1996-622740	19960327
	US 6326527	B1	20011204	US 1996-763704	19961209
	US 6013863	A	20000111	US 1997-844555	19970421
	ZA 9710988	A	19990608	ZA 1997-10988	19971208
	AU 9857958	A1	19980703	AU 1998-57958	19971209
	EP 942971	A2	19990922	EP 1997-954090	19971209
	JP 2001507572	T2	20010612	JP 1998-526959	19971209
	BR 9713692	A	20020115	BR 1997-13692	19971209
	US 6329574	B1	20011211	US 1998-122399	19980724
PRAI	US 1990-467983	A	19900122		
	US 1990-636089	A	19901228		
	US 1996-763704	A	19961209		
	US 1990-508045	A	19900411		
	JP 1991-503373	A3	19910114		
	WO 1991-US183	W	19910114		
	US 1992-974379	A1	19921110		

no  
antibody  
discussion

US 1993-112245 A1 19930825  
 US 1994-285488 A3 19940803  
 US 1995-440646 A3 19950515  
 US 1996-677695 A3 19960710  
 WO 1997-US22744 W 19971209

L9 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:640782 CAPLUS  
 TI Alteration of amino acid composition of seed by altering levels of  
 expression of endogenous genes and amino acid composition of gene products  
 IN Jung, Rudolf; Hastings, Craig; Coughlan, Sean; Hu, David  
 PA Pioneer Hi-Bred International, Inc., USA  
 SO PCT Int. Appl., 30 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9735023	A2	19970925	WO 1997-US4409	19970319 <--
	WO 9735023	A3	19971218		
	US 5850016	A	19981215	US 1996-618911	19960320
	CA 2220959	AA	19970925	CA 1997-2220959	19970319 <--
	AU 9725351	A1	19971010	AU 1997-25351	19970319 <--
	EP 828846	A2	19980318	EP 1997-916838	19970319
	CN 1193355	A	19980916	CN 1997-190511	19970319
PRAI	US 1996-618911		19960320		
	WO 1997-US4409		19970319		

*no  
antibody  
screen*

L9 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:636217 CAPLUS  
 TI A seed storage protein, AmAl (Amaranth Albumin 1), cDNA sequence, cloning, and use  
 for genetically engineering seeds with improved  
 nutritional amino acid content  
 IN Datta, Asis; Raina, Anjana; Biswas, Subhra  
 PA India  
 SO U.S., 19 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5670635	A	19970923	US 1993-158270	19931129 <--
	US 5846736	A	19981208	US 1996-635681	19960422
	US 5849352	A	19981215	US 1996-635677	19960422
PRAI	US 1993-158270		19931129		

*no  
Ab*

L9 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:61368 CAPLUS  
 TI Methods of increasing accumulation of essential amino acids in seeds by  
 increasing biosynthesis of the amino acid and of a protein containing it  
 IN Beach, Larry R.; Tarczynski, Mitchell C.  
 PA Pioneer Hi-Bred International, Inc., USA  
 SO PCT Int. Appl., 21 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9638574	A1	19961205	WO 1996-US8067	19960530 <--
	CA 2222673	AA	19961205	CA 1996-2222673	19960530 <--
	AU 9659561	A1	19961218	AU 1996-59561	19960530 <--
	EP 828845	A1	19980318	EP 1996-916809	19960530
	CN 1195377	A	19981007	CN 1996-196076	19960530
	BR 9609360	A	19990525	BR 1996-9360	19960530
	JP 11506007	T2	19990602	JP 1996-536664	19960530

*no  
Ab*

US 6127600            A        20001003            US 1997-826341    19970326  
 PRAI US 1995-455358    A        19950531  
       WO 1996-US8067    W        19960530

L9 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2002 ACS  
 AN 1994:478625 CAPLUS  
 TI Increasing the content of a selected amino acid in a seed storage protein  
 IN Ballo, Barbara  
 PA Pioneer Hi-Bred International, Inc., USA  
 SO PCT Int. Appl., 32 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9410315	A2	19940511	WO 1993-US10090	19931022 <--
	WO 9410315	A3	19940915		
	AU 9454466	A1	19940524	AU 1994-54466	19931022 <--
PRAI	US 1992-965664		19921023		
	WO 1993-US10090		19931022		

L9 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2002 ACS  
 AN 1993:513675 CAPLUS  
 TI Synthetic storage proteins containing defined levels of essential amino acids for improvement of the nutritional value of plants  
 IN Falco, Saverio Carl; Keeler, Sharon Jo; Rice, Janet Ann  
 PA du Pont de Nemours, E. I., and Co., USA  
 SO PCT Int. Appl., 176 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9303160	A1	19930218	WO 1992-US6412	19920807 <--
	AU 9224412	A1	19930302	AU 1992-24412	19920807 <--
	AU 661334	B2	19950720		
	EP 598806	A1	19940601	EP 1992-917644	19920807 <--
	JP 07502163	T2	19950309	JP 1992-503771	19920807 <--
	ZA 9205984	A	19940210	ZA 1992-5984	19920810 <--
	US 5559223	A	19960924	US 1994-182175	19940203 <--
PRAI	US 1991-743006		19910809		
	WO 1992-US6412		19920807		
OS	MARPAT 119:113675				

L9 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2002 ACS  
 AN 1992:466502 CAPLUS  
 TI Approaches for enhancing the lysine content of maize seed  
 AU Lopes, Mauricio A.; Larkins, Brian A.  
 SO Biotechnol. Nutr., Proc. Int. Symp., 3rd (1992), Meeting Date 1990, 237-52. Editor(s): Bills, Donald Duane; Kung, Shain-dow. Publisher: Butterworth-Heinemann, Boston, Mass.